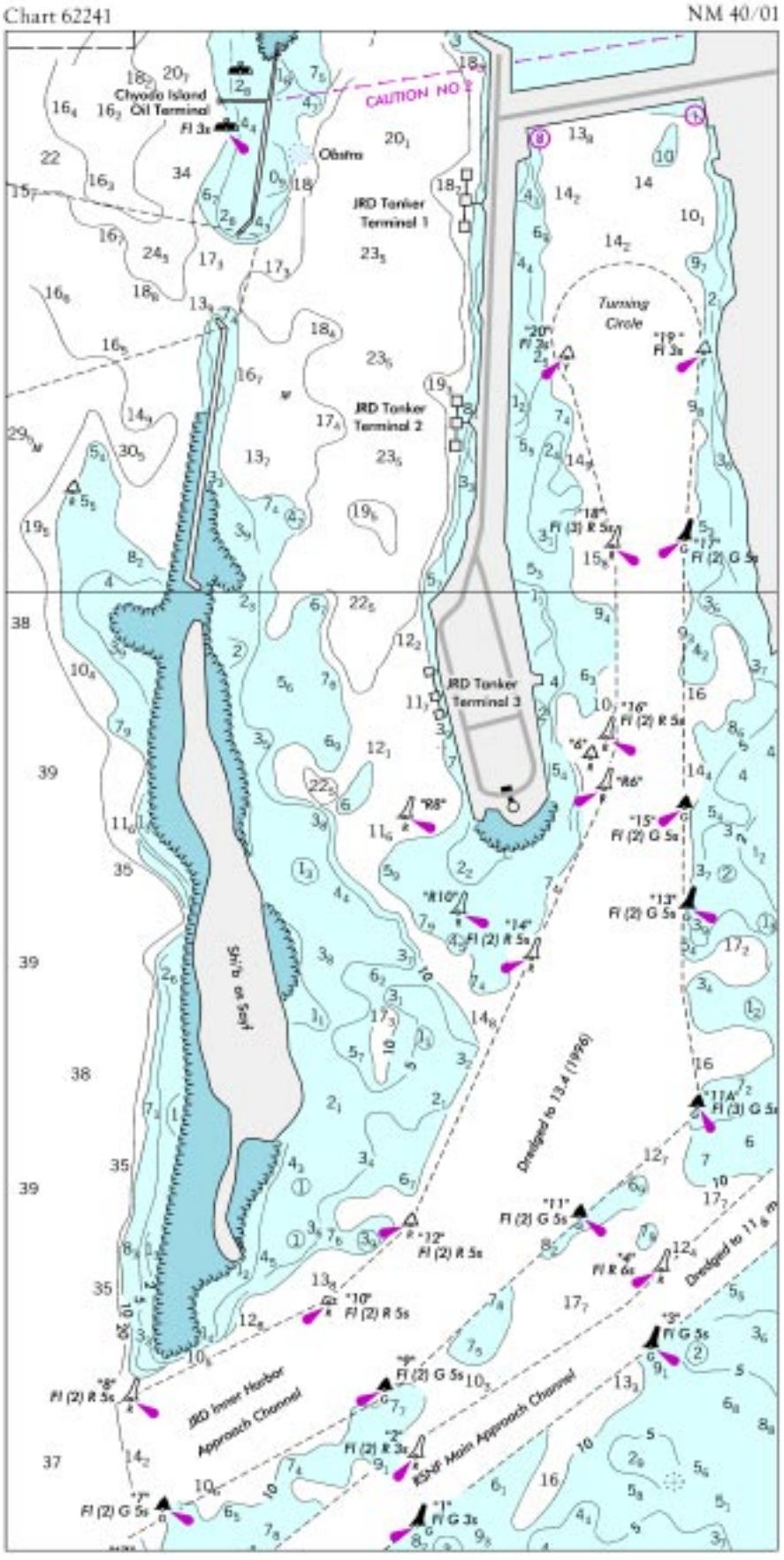
Chart 62241
NM 40/01
Chyoda Island Oil Terminal
Fl 3s
CAUTION NO 2
Obstn
JRD Tanker Terminal 1
JRD Tanker Terminal 2
JRD Tanker Terminal 3
Turning Circle
"20" Fl 3s
"19" Fl 3s
"18" Fl (3) R 5s
"17" Fl (2) G 5s
"16" Fl (2) R 5s
"6"
"R6"
"15" Fl (2) G 5s
"R8"
"R10"
"14" Fl (2) R 5s
"13" Fl (2) G 5s
"11A" Fl (3) G 5s
"11" Fl (2) G 5s
"12" Fl (2) R 5s
"4" Fl R 5s
"10" Fl (2) R 5s
"3" Fl G 5s
"8" Fl (2) R 5s
"9" Fl (2) G 5s
"2" Fl (2) R 3s
"7" Fl (2) G 5s
"1" Fl G 3s
Ship's on Shelf
Dredged to 13.4 (1976)
Dredged to 11.6 m
JRD Inner Harbor Approach Channel
JRD Main Approach Channel

Chart 11506 NM 40/01

BRUNSWICK HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL							
(ST SIMON RANGE)	31.0	31.5	A27.0	7-01	500	7.7	32
PLANTATION CREEK RANGE	45.0	41.0	40	7-01	400	1.8	32
JEKYLL ISLAND RANGE	31.5	32.0	34.0	7-01	400	1.9	30
CEDAR HAMMOCK RANGE	30.0	32.0	30.0	7-01	400	1.4	30
BRUNSWICK PT CUT RANGE	27.0	27.0	26.5	7-01	400	2.4	30
EAST RIVER							
LOWER REACH	B29.0	28.0	23.0	6-01	400	1.1	30
UPPER REACH	27.0	27.5	26.0	6-01	350	1.0	27
EAST RIVER TURNING BASIN	26.0	28.0	28.0	6-01	750	0.2	30
TURTLE RIVER LOWER RANGE	36.0	31.0	32.0	7-01	300	1.7	30
BLYTHE ISLAND RANGE	32.0	27.0	26.0	7-01	300	1.5	30
TURTLE RIVER UPPER RANGE	29.0	29.0	27.5	7-01	300	2.7	30
SOUTH BRUNSWICK RIVER	30.0	31.0	30.0	7-01	400	1.3	30

A. OBSTRUCTION REPORTED WITH A DEPTH OF 29 FEET, LOCATED AT 31°04'06.6"N; 081°16'35.7"W.

B. THE EAST RIVER, LOWER REACH WIDENER LEAST DEPTHS WERE 26 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT, AND 28.5 FEET, LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE.

NOTE - FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 50 FEET INSIDE THE CHANNEL LIMITS. (EXCEPT FOR THE EAST RIVER TURNING BASIN)

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12311 NM 40/01

CHRISTINA RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2001 AND SURVEYS TO JUL 2001

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	31.0	30.8	31.7	7-01	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN	34.5	33.4	33.0	7-01	400	0.33	35
(OPPOSITE TERMINAL WHARF)	33.8	33.8	33.8	7-01	320	0.34	38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12312 NM 40/01

CHRISTINA RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2001 AND SURVEYS TO JUL 2001

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	31.0	30.8	31.7	7-01	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN	34.5	33.4	33.0	7-01	400	0.33	35
(OPPOSITE TERMINAL WHARF)	33.8	33.8	33.8	7-01	320	0.34	38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327 NM 40/01

NEW YORK HARBOR - LOWER BAY - CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001 AND SURVEYS TO APR 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	40.3	44.7	44.9	28.4	9-95	2000	9.2	45
SANDY HOOK CHAN. (EAST) A	39.7	41.9	40.0B	32.0	3-99	800	3.5	35
SANDY HOOK CHANNEL	23.6	38.9	35.5	34.8	3,7-99	800	2.4	35
CHAPEL HILL:								
SOUTH CHANNEL	29.2	30.2	30.3	27.5	4,5-99	1000	2.7	30
NORTH CHANNEL	29.4	29.4	29.3	27.9	4,5-99	1000	1.8	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	2-97	400	0.8	35
KEYPORT HARBOR CHANNEL	4.5	6.6	6.6	5.8	4,5-99	200	0.9	8
RARITAN BAY EAST REACH	35.3	37.6	36.8	32.7	7-99	600	4.0	35
RARITAN BAY WEST REACH	33.8	38.7	38.9	29.7	7-99	600	2.4	35
SEGUINE POINT BEND	33.1	34.8	37.8	23.7	7-99;4-01	600-800	1.2	35
RED BANK REACH	33.4	40.8	40.8	36.5	4-01	800	1.2	35
WARD POINT BEND (EAST)	33.0	38.5	37.0	29.4	4-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.5	33.8	32.4	32.1	4-01	600-800	0.8	35
RARITAN RIVER CUT OFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-93	400	0.9	30
GREAT BEDS REACH	12.4	16.0	17.9	16.2	4-99	300	0.6	25
SOUTH AMBOY REACH	18.6	21.2	18.0	16.0	4-99	300	1.2	25

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.
B. DEPTH FROM NOS FIELD SURVEY AT 40°28'57" 73°59'36".
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327 NM 40/01

ARTHUR KILL, KILL VAN KULL, NEWARK BAY,
PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS-
REPORT OF AUG 2001 AND SURVEYS TO APR 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
ARTHUR KILL (OUTERBRIDGE REACH TO N. OF SHOOTERS I. REACH)	A22.9	800-500	5-99;2-01,3-01;4-01
KILL VAN KULL (CONSTABLE HOOK REACH TO BERGEN PT. WEST REACH)	34.0	2000-800	12-96;2-97;5-99
S. OF SHOOTERS I. REACH	B5.0	400	8-90
NEWARK BAY (NEWARK BAY S. REACH TO DROYERS PT. REACH)	C17.0	1750-300	3-99
PASSAIC RIVER (KEARNY PT. REACH TO ARLINGTON REACH)	D,E0.8	300-200	6,11-89;2,3-98
HACKENSACK RIVER (DROYERS PT. REACH TO TURNING BASIN)	18.7	300-800	3-99

A. A DEPTH OF 34.5 FEET WAS AVAILABLE IN THE MIDDLE HALF.
B. OBSTUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUM DEPTH OF 5.9 FEET OVER WRECKAGE.
C. A DEPTH OF 22.4 FEET WAS AVAILABLE IN THE MIDDLE HALF. EXCEPT FOR SHOALING TO 9 FT AT 40° 42' 11.4" N 74° 08' 56.1" W.
D. A DEPTH OF 6.5 FEET WAS AVAILABLE IN THE MIDDLE HALF.
E. SHOALING TO BARE ALONG THE LEFT OUTSIDE QUARTER AT THE TURN AT 40°45'43"N, 74°09'49"W.
NOTE 1. SEE LARGE SCALE CHARTS FOR MORE DETAIL OF REACHES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 12331 NM 40/01

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001
AND SURVEYS TO APR 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
RARITAN BAY-WEST REACH	33.8	38.7	38.9	29.7	7-99	600	2.4	35
SEGUINE POINT BEND	33.1	34.8	37.8	23.7	7-99;4-01	600-800	1.2	35
RED BANK REACH	33.4	40.8	40.8	36.5	4-01	600	1.2	35
WARD POINT BEND (EAST)	33.0	38.5	37.0	29.4	4-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.5	33.8	32.4	32.1	4-01	600-800	0.8	35
OUTERBRIDGE REACH	34.2	35.4	35.0	32.2	4-96;4-01	600-800	0.8	35
PORT SOCONY REACH	34.9	35.3	35.7	34.9	5-99	600-800	0.8	35
PORT READING REACH	28.1	35.5	35.3	22.9	5-99	500	1.8	35
FRESH KILLS REACH	32.2	35.7	36.7	34.4	5-99	500	1.8	35
RARITAN RIVER CUTOFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-91	400	0.9	30
GREAT BEDS REACH	12.4	16.0	17.9	16.2	4-99	300	0.6	25
SOUTH AMBOY REACH	18.8	21.2	18.0	16.0	4-99	300	1.2	25

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12332 NM 40/01

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001
AND SURVEYS TO APR 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
WARD POINT BEND (EAST)	33.0	38.5	37.0	29.4	4-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.5	33.8	32.4	32.1	4-01	600-800	1.3	35
OUTERBRIDGE REACH	34.2	35.4	35.0	32.2	4-96;4-01	600	1.6	35
RARITAN RIVER CUTOFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-91	400	0.9	30
GREAT BEDS REACH	13.9	17.0	17.9	18.2	4-99	300	0.6	25
SOUTH AMBOY REACH	12.4	16.4	18.0	16.0	4-99	300	1.2	25
SANDY POINT REACH	15.9	18.9	20.0	23.5	4-99	300	0.9	25
KEASBEY REACH	18.1	20.8	21.9	20.9	4-99	300	0.9	25
RED ROOT REACH	11.6	15.8	13.9	6.7	6,7-98;4-99	300	1.5	25
CRAB ISLAND REACH	15.0	14.5	14.5	12.5	9-88	200	1.2	15
NORTHWEST REACH	A6.0	A7.5	A7.5	12.2	7-62	200	1.2	15
TITANIUM REACH	11.1	12.5	1.0	0.9	1-91	300	0.6	25
SOUTH CHANNEL	C2.0	D4.2	B4.2	B2.1	7-62;3,4-90	150	0.7	15-10

A. SHOALS LOCATED OPPOSITE RARITAN RIVER LIGHT 30 TO 400 YARDS SOUTH; A DEPTH OF 13 FEET FOR A WIDTH OF 200 FEET WAS AVAILABLE TO THE WEST OF THE PROJECT CHANNEL.
B. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'34.4"N, 74°19'03.0"W.
C. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'35.4"N, 74°19'04.5"W.
D. POSSIBLE 4 FT OBSTRUCTION LOCATED IN 40°29'37.4"N, 74°19'04.0"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12333 NM 40/01

ARTHUR KILL, KILL VAN KULL, NEWARK BAY AND UPPER BAY CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB - MAR 2001

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
FRESH KILLS REACH	32.2	35.7	36.7	34.4	5-99	500	1.8	35
TREMLEY POINT REACH	32.6	37.5	36.1	32.2	5-99	600	0.9	35
PRALLS ISLAND REACH	30.8	34.8	35.7	31.0	5-99;2-01,3-01	500	1.2	35
GULFPORT REACH	27.3	37.0	37.0	31.0	2-01,3-01	500-600	1.1	35
ELIZABETHPORT REACH	31.6	35.8	36.0	33.9	5-99	500-600	1.1	35
N OF SHOOTERS ISLAND REACH	33.0	34.5	35.6	33.9	5-99	600	1.0	35
S OF SHOOTERS ISLAND REACH	18.6	24.1	14.0	A 5.0	8-90	400	1.0	30
BERGEN PT. WEST REACH	38.1	40.0	40.0	37.1	12-96;2-97;5-99	800	1.1	35
BERGEN PT. EAST REACH	37.4	40.0	40.0	39.5	12-96;2-97	800	1.0	35
CONSTABLE HOOK REACH	34.0	40.0	40.0	34.8	12-96;2-97	2000-800	2.2	35
NEWARK BAY SOUTH REACH	40.3	40.1	40.2	39.1	3-99	1750-1000	1.4	40
NEWARK BAY MIDDLE REACH	36.9	40.6	37.6	34.6	3-99	1750-500	1.4	40
ELIZABETH CHANNEL	39.3	39.8	39.9	39.1	3-99	1350-500	1.4	40
PORT NEWARK CHANNEL:								
PORT NEWARK(BRANCH CHANNEL)	36.9	37.9	36.8	35.8	3-99	1050-400	0.4	40
PIERHEAD CHANNEL	36.5	37.4	35.9	36.0	3-99	300	0.7	40

A. OBSTRUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUM DEPTH OF 5.9 FT OVER WRECKAGE.

* CONTROLLING DEPTHS IN CHANNELS OF RARITAN BAY- EAST REACH TO AND INCLUDING FRESH KILLS REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM LOWER NEW YORK BAY. CONTROLLING DEPTHS FROM CONSTABLE HOOK TO AND INCLUDING TREMLEY POINT REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM UPPER NEW YORK BAY.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12371 NM 40/01

NEW HAVEN HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JULY 2001 AND SURVEYS TO OCT 2000

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	35.9	35.6	35.7	35.0	10-00	500	1.1	35
LIGHTHOUSE POINT REACH	32.8	34.4	34.1	31.4	10-00	400-500	2.9	35
NEW HAVEN REACH	29.3	30.7	29.6	29.7	10-00	800-500	1.0	35
EAST HAVEN REACH	13.2	16.6	15.0	17.0	1,6-83	500-100	0.1	22
QUINNIPIAC RIVER								
FERRY ST. BRIDGE REACH	A14.7	16.0	16.4	13.8	12-93	200	0.6	B 18
GRAND AVE. BRIDGE REACH	11.5	12.7	12.8	11.8	12-93	D 200	0.5	22-16
MILL RIVER								
ENTRANCE CHANNEL	E6.9	E6.9	7.7	6.6	6-88	200	0.3	12
EAST FORK	F12.2	F11.0	G10.9	H10.1	6-88	100	0.2	12
WEST FORK	+0.2	1.5	2.2	2.4	1-80	125	0.3	12

A. EXCEPT SHOALING TO 12.7 FEET ON NORTH LIMITS OF CHANNEL.
B. THE MAINTAINED DEPTH IS 16 FEET.
C. EXCEPT SHOALING TO 7.0 FEET IN POSITION 41°18'31.5"N
D. THE PROJECT WIDTH IS 200-400 FEET AND THE MAINTAINED WIDTH IS 200 FEET.
E. EXCEPT SHOALING TO 3.8 FEET WITHIN 25 FEET OF CHAPEL ST.BRIDGE FENDER.
F. EXCEPT SHOALING TO 0.9 FEET IN LAST 430 FEET OF REACH.
G. EXCEPT SHOALING TO 0.5 FEET IN LAST 430 FEET OF REACH.
H. EXCEPT SHOALING TO 0.2 FEET IN LAST 430 FEET OF REACH.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION